

asp 256 Ainoana: Th. uniform.

Eulec 360 Disco atro 0

Plac 601-664 -atra 328

Placops 665-67 -aropholi 456

G. chetia -prosecha 343 asp

Ochrolechia 675-70 linaea 31693 71447

Lecama 711-71 -ostracodermis 495

Sol. opesia 712-716 -arabica 284 asp

Hecmatoma 717-718 -multineta 286 asp

Hily to 718-84 -griseoatra 31776

" ella 85 -fulcaria 31821

Cand-814 -metabolica 71521 71447

-convoluta 4155

-convoluta 419

+leucoris 684 ochrolechia

verrucosa 357 asp

veridea 21561

sorbodes 71550

myrinx 71498

colobina 71529

milvina 71529

fuscoatra 31582

Disco decolorato glaucoc. ti te.

-rugosa 527

-Villarsii 21664

-Gerantonius 21506

-sericis 410

-leucora 526

-Sartzi 532

-angulosa 404

-chondrotyna 500

-subcarnea 547

-et. lionabellia 401

-lutescens 766 Haematoma

-Heroni 464

-varicifilis 71191

Disco vario colorato nudo

-albella 497

-parella 687 } ochrolechia

-tartarea 696 }

-Turneri 692 }

-Stonci 761 Haematoma

-caracoluta 235 Pertusaria

-expallens 429

-serupulosa 544

-livida 482

-poralis 370

-rubelliana 71180

-detrita 415

-opacora 447

-varia 692

-intricata 411

-ocriacta 426

-anomala 366

-granulosa 377

-minutula 377

-prospila 713 Haematoma

-opodophaea 510

-rubricosa 7160

-effusa 536

-tripelia 113

-elatina 766 Haematoma

Eulec 346

Aspic 5

Gel. n. n. 4

Haematoma 6

Placod 13

Placops 1

Sol. op. 1

Candelar 1

STATE OF NEW YORK

County of Albany

1900

May 17, 1900

County of Albany, ss.  
I, the Clerk of the County, do hereby certify  
that the within and foregoing is a true and  
correct copy of the original as the same  
appears in the files of the County.

Attest my hand

and the seal of the County, at Albany,  
this 17th day of May, 1900.  
Clerk of the County of Albany.  
[Signature]  
[Seal]

inulina	7136
haematoma	760 Haematoma
rubra	21716
corina	7185
crusodia	7166
bryontha	2342 crura
-subfusca	551
punica	769 Haematoma
-bryon	564
cystaspis	—
-distincta	445
-poliophaea	509
-thallina	452
bella	59 Accusatoria
ventosa	774 Haematoma
-sulphurea	576
-orosthea	493
salicina	7172
erythrella	71132
cinnabarina	71101
citrina	71184
vitellina	804 Ca. delia
incructana.	717

Psorona: Th. crust. effig.

-Ludvigii	457
-badia	393
halophaca	56 Actarosp
decipiens	31870
testacea	31894
glucocarpa	68 Accus.
smithii	622 Placod
chrysocarpa	656
rubina	652
crassa	612
vicella	71700
tribacia	71694
cartilaginea	608 Placod
rutilans	71297
candelaria	71279
hypnorum	31271
leptocera	31271
brunnea	31251
microphylla.	31214

Placodium: Th. crust. planiusculum tubitum verrucoso-stellato sublobato

adscensionis	71580
epicea	752 Solar operon
acciolita	71580
lentigera	627 Placod
laccosa	6265
galactina	365 Accus.
teicholyta	71186
circinata	649
versicolor	642 Placod
gyrthina	652
glauca	631
solida	665 Placod
soliana	672
elastica	31241
polybdina	102 Accus.
teutica	103
vicola	634 Placod



Trachinota 661 Placod  
 microrum 7:250  
 iniata 7:252  
 plodans 7:233  
 chlorophana ~~7:105~~ 7:105? Acarap  
 oxytona 107  
 callopisma 7:220  
 fulvens 7:206

Commerce and Finance Library

The Lincoln library of essential information.

Social planning council of Saint Louis; Dept. of social research.	City street index.	310
Social planning council of Saint Louis. Dept of social research.	County street index.	310
Rhodes, E. C.	Elementary statistical methods.	311
Wold, H.	A study in the analysis of stationary time series.	311
Haney, L. H.	Value and distribution.	330
Schumpeter, J. A.	Business cycles. 1st ed. 1939. 2 v.	330
Hadley, Charles R., co.,	Manual of pathfinder truck cost system.	657
Clyde, W. H.	A history of the modern and contemporary Far East.	950

Mechanical & Electrical Engineering Departments

Clayton, A. E.	The performance and design of direct current machines. 2d ed. 1938.	EE
Eady, M.F.	Aeronautic radio.	EE
Hague, B.	Alternating current bridge methods. 4th ed. 1938.	EE
Reed, H. R.	Electrical engineering experiments.	EE
Whytlaw-Gray, R. W.	Smoke.	ME

Geology Department

Adams, F. D.	The birth and development of the geological sciences.	
Allen, V. T.	This earth of ours.	
Baxter, W.T.	Jewelry, gem cutting, and metalcraft.	
Bowles, O.	The stone industries.	
Casteret, N.	Ten years under the earth.	
Clark, W.	Photography by infrared.	
Emmons, W. H.	Geology; principles and processes.	
English, G. L., comp.	Descriptive list of the new minerals, 1922-1938.	
Fenton, C. L.	Our amazing earth.	
Forbes, A.	Northernmost Labrador, mapped from the air.	
Fryxell, F. M.	The Tetons.	
Hager, D.	Fundamentals of the petroleum industry.	
Huebner, W.	Geology and allied sciences. v.1. 1939.	
James, H.	Romance of the national parks.	
Jefferson, M.	Peopling the Argentine Pampa. 1939.	
Gutenberg, B., ed.	Internal constitution of the earth. 1st. ed. 1939.	
Landon, C. E.	Industrial geography.	
Lee, W.	Stratigraphic and paleontologic studies of the Pennsylvanian and Permian rocks in north-central Texas.	
Legget, R. F.	Geology and engineering.	
Lobeck, A. K.	Geomorphology.	



	Pannarioid	Didymosporae	Phragmosporae	Dictyosporae
Biatorine				
Ecorticate				
Crustose	Leprocollema			
foliose	Leciophysma	Homotheceum		
Corticate	<del>Koerberia</del>		<del>Hydrothyria</del>	
foliose	Lemmopsis		<del>Koerberia</del>	
fruticose	Ramalodium			
Lecanorine				
Ecorticate				
Sessile	Lempholemma	Dicollema	Synechoblastus	
			Collemodiopsis	
Immersed	<del>Collema</del>	Pyrenocollema		
Corticate above			Pseudoleptogium	
Corticate				
Pseudoparenchy				
sessile				Homodium
immersed	Arnoldia	L. rivale		
Plectenchymat				
etomentose			Leptogiopsis	Leptogium
tomentose				
foliose				Mallotium
fruticose				Leptolobaria

~~crustose~~ ~~Arnoldia~~  
~~Pseudoparenchy~~ ~~Lempholemma~~  
~~Ecort~~ ~~Lemphospora~~  
~~Ecort~~ ~~Lepidaria~~  
~~foliose~~ ~~Arnoldia~~  
~~fruticose~~ ~~Collema~~

Scytonema  
Stigonemites

Ephedraceae Masclongia Placynthium

Gloeocapsa

Pyrenopsidaceae

Rumicaria

Lichinaceae

Nostoc

Collemaaceae

"

~~Hyppuraceae~~

Pannariaceae

Stictaceae

Solorinella

Nephroma

Peltigeraceae

Hydrothyria

hyphal cortex  
cuticular cords  
pseudopar

Coccocarpia

Lepidocollema

Lepidoleptogium

Masclongia

Placynthium

Parmeliella

Pannaria

Phycomia

Erioderma

Huella

OFFICE OF THE SECRETARY

# American Board of Ophthalmology

JOHN GREEN, M. D.  
3720 WASHINGTON BOULEVARD  
ST. LOUIS, MISSOURI

MISS LEA M. STELZER, Registrar  
6830 Waterman Ave. St. Louis, Missouri

August 18, 1938.

Dear Doctor:

The American Board of Ophthalmology will hold an examination at the New York Eye and Ear Infirmary, 218 Second Ave., New York City, Friday, October 7th, at 8:00 A.M. Kindly register promptly at 8:00 A.M. with the Registrar. Your examination will cover the following subjects:

External Diseases -Slit Lamp  
Ophthalmoscopy  
Histology and Pathology  
Anatomy and Embryology  
Refraction-Retinoscopy

Muscles-Motility  
Perimetry  
General Diseases-Neurology  
Therapeutics - Operations  
Practical Surgery  
Optics and Visual Physiology

The examination will occupy the entire day and unfinished subjects may require completion in Washington on Saturday or Sunday. Please bring with you any small instruments such as ophthalmoscope, retinoscope or loupe that you habitually use. The examination in ophthalmic surgery will consist of an oral quiz and surgery on animal eyes. Kindly bring with you instruments necessary for a combined capsulotomy extraction.

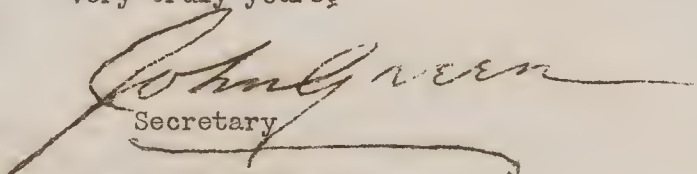
In Refraction candidates will be required to show a thorough understanding of the technique of the fogging method, of the use of astigmatic dials in measuring astigmatism, and of the cross-cylinder tests for strength and axis of astigmatism.

A set of microscopic slides illustrating phases of ophthalmic histology and pathology can be obtained through this office upon deposit of \$25.00 which will be refunded upon return of the slides in good condition.

For 1939, the Board announces an examination in St. Louis in the Spring at the time of the meeting of the American Medical Association, and also at the place of the meeting of the American Academy of Ophthalmology and Oto-Laryngology, usually in October.

Kindly fill in attached card and mail to me at once regardless of previous arrangement or correspondence. It is necessary that the Board know immediately the number of candidates who will appear at this examination.

Very truly yours,

  
Secretary

IMPORTANT: Please retain this letter for your information.



Pyrenocollema - Venezuela

Leprocollema - Brazil N Caledonia

Lecrophysma - Finland

Lempholemma

Arnoldiella - France

Eulempholemma Europe Australia St Vincent off Africa

Lepidora Taurus peninsula

Arnoldia Europe N Am

Lemphospora Guadeloupe S Domingo C R Pan perhaps better Pannariace

Collema N Am

Lemmopsis Europe N Am

Phyisma - Oceania 1 Chile + Antilles perhaps Pannariace

Homothecium Chile

Collema

Synechoblastus Eur <sup>N Am</sup> Trop Asia Mauritius Australia S Am N Am

Collemodiopsis Europe Java Antilles

Blennothallia Europe Antilles N Am Trop Am. Tonkin <sup>India</sup> Jap Austral

Collemodus Ohio

N Afr

Koerberia Europe

Arctomia N Eur + Siberia

Ramalodium Australia perhaps better in Pannariaceae

Leptogium

Collemodium Eur N Am N Afr. Siberia

Pseudoleptogium Europe

Leptogropsus Europe S Afr Philippines Guana

Euleptogium

Homodium Eur Siberia California N Am. W Afr

Mallotium Chile N Europe N Am Trop Am Japan India P. I.

Leptolobaria Chile to Antilles.

Aphanopsis Europe

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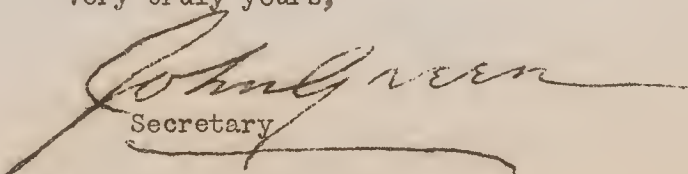
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# LEPTOGIUM IN AUSTRALASIA

Spores bilocular, apothecia 0.2-0.7mm Victoria Homodium?biloculare  
 Spores 5-septate, apothecia 1-2.2mm, Philippines Leptogiopsis pacificum  
 Spores muriform

Thallus tomentose below

Mallotium

L. trichophorum

L. plumbeum

Thallus not tomentose below

Thallus isidiose or microphylline

~~Margins crowdedly ciliate, not other~~

~~L. fallax~~

~~Margins densely microphylline lacinulate~~

~~L. fallax~~

~~V. congestum~~

Upper surface as well as margins densely microphylline isidi  
 isidiose

✓ L. trem. myriophyllum

✓ L. trem. isidiosa

~~Margins only denticulate isidiose or fibrillose lacerate~~

~~thallus plicatulo-rugulose~~

~~L. laceratulum~~

Margins and upper surface isidiose

Thallus wrinkled

Wrinkles very fine, longitudinal

✓ L. caesium trachynum

Wrinkles reticulate 40-80u high

✓ L. propaguliferum

Thallus not conspicuously wrinkled when dry

✓ L. pychneoides

~~L. fallax f. isidiigerum~~

✓ L. consimile

✓ L. granulans



*Dendriscaulon umhausense* Degel., Ark. Bot. 30:3:28. 1940.

*Cornicularia umhausensis* Auerw., Hedwigia 8:113. 1869.

✓ *Physcia ciliata* v. *erythrocardia* Degel., Ark. Bot. 30:3:70. 1941.  
*l. obscura* v. *erythrocardia* Tuck., Proc. Amer. Acad. Arts Sci. 4:399. 1860

*Pseudoleptogium* Mull. Arg. = *Leptogium* sect *Homodium*  
✓ *Leptogium diffractum* Krmph. (*Pseudoleptogium* diff. MQ) belongs in *Homodium*

✓ *Leptogium placodiellum* Nyl. " " " "

✓ *Collema leptogioides* Anzi belongs in *Leptogium* sect *collemodium*  
*Leptogium Marci* Harm " " "



Parathesium absent L diaphanum C Hambro

Parathesium pseudopar

- L inflexum
- L foveolatus cellosmalt
- L microstictum
- L vesiculosum
- L stipitatum
- L phyllocarp
- L coralloideum
- L marginellum
- L denticulatum?
- L Tuckermanni thin
- L simplicius
- L laevius
- L lafayetteanum
- L pachycheilum
- L ulvaceum Malme
- L simplicius
- ? L conchatum
- L. stellans
- L. Brebissonis at least Tex, Brazil.
- L chloromelum
- L microcarpum
- L pilcomayensis
- L mattogrossense
- L picheum Malme

- C glaucophthalmum
- C leptosporum
- C microptychum
- C paraguayensis
- C granadilla
- C glaucophthalmum
- C simplicatum

Parathes filamentous

- L olivaceum
- ✓ granuloseum
- L denticulatum?
- L azureum
- L Standleyi
- L Puggarii
- L brasiliense
- L pulchellum
- L dimorphum
- L Schaffneri
- Lopis L megalopotaenic
- L picheum Nyl Japan
- L austramericanum
- L. cyaneescens Italy
- L. maluccanum ~~from~~ Malme
- L. denticulatum
- L Menziesii
- ✓ fusosporum
- L australe.
- C pycnocarpum
- C cyrtarpis

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1  
Leptogium Diaphanum

NEW ENGLAND BOTANICAL CLUB

Heredia: Santo Domingo Del Rable	1600 m	Dodge and V.F. Garger	9592
Patzcuaro, Mexico:	1000 m	C.Q. Pringle	225
Porto Rico: Luguillo Mts., El Yunque	—	Perry Wilson	59
Jamaica: Newcastle to Hardware Gap Road	—	A.W. Evans	—
Columbia: Bogota	2600 m	Lindig	2518
Columbia: Dept. Santander	1500-1900 m	E.P. Killip Albert C. Smith	19443

Leptogium Homodivium

Panama Canal Zone: Barro Colorado Is.	20-75 m	G.W. Martin	4022
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Leptogium Coralloideum

Mexico, Orizaba	—	F. Müller	—
Venezuela, Mérida	—	C. Rodriguez	153
Heredia: Santo Domingo Del Rable	1600 m	V.F. Garger	10521
Tuensas: <del>S. Pedro</del> (sterile)	1200 m	S. Pedro	16136
Aloquela: Las Fraigones	1500-1700 m	P.C. Standley R. Torres	47420
Puntarenas: Rio Terrones	1-10 m	C.W. Dodge, V.F. Garger	10322
San José: Rio Papuita	1-3 m	Dodge, V.F. Garger	9723
Puntarenas: Rio Sandala	1-10 m	" "	10194
Cartago: La Carpintera	—	Dodge	3972
Panama: Hills between Capira and Potrero	80-130	Dodge, A.A. Hunter	8956
Panama: Rio Indio Hydrographic Sta.	—	Dodge and P.H. Allen	8912
Columbia: Dept. Antioquia, Medellín	—	W.A. Ascher	660

NEW ENGLAND BOTANICAL CLUB

Leptogium Coralloideum (Cont.)

- Columbia, Cordillera: Dept Santander 2500-2600m E.P. Killip 19292  
Albert C. Smith  
Peru: Dept Ayacucho - Aina 750-1000m Killip 2258  
Smith  
Brazil: Porto Alegre, Rio Grande do Sul - Baldwin, Paul 108  
Guatemala: near Tilarán 500-650m Standley, Valerio -  
" : H. Santamaría 680-780m Dodge, W. S. Thomas 8018  
" : South of Liberia 100m Dodge, Thomas 6599  
" : near H. Santamaría 640-680m " " 7995  
" : Northeast of Tilarán 500-690m " " 6563  
Puntarenas: near Corozal 5-50m C.W. Dodge 8025  
Cartago: Rio Birris 1220-1340 Dodge, W. S. Thomas 7994  
Heredia: above Santo Domingo del Roble 1600m V.F. Garger 10517  
Cartago: Santiago 1140-1180m C.W. Dodge 8000  
Puntarenas: Rio Sandalo 1-10m Dodge, V.F. Garger 10512  
San Jose: Rio Virilla — Dodge 7782  
De La Palma a la Houdura: 1500-1700m Mapou, Harvey 7891  
Heredia: above Santo Domingo del Roble 1600m V.F. Garger 10583  
Panama: near Alahuela 90-100m Dodge, Steyermark 8958  
P.H. Allen  
Limón: Finca Siam — Dodge, V.F. Garger 9589  
San Jose: near Zapote 1200m Standley 40273

## NEW ENGLAND BOTANICAL CLUB

Leptogium Coralloideum (Cont.)

- Cartago: Rio Birris 1220-1340m Dodge, W.S. Thomas 4632  
 " : Carpintera 1700m Danielson 101  
 Alajuela: La Palma de San Ramon 1250m A.M. Brenes 91  
 San Jose: Rio Paqueta 1-3m Dodge, Goerger 9713  
 Heredia: Santo Domingo Del Roble 1600m V.F. Goerger 10567  
 Guanacaste: H. Santamaria 680-780m Dodge, Thomas 6796  
 Puntarenas: Rio Sandalo 1-10m Dodge, Goerger 10424  
 Guanacaste: H. Santamaria 640-680m " Thomas 8002  
 Puntarenas: Rio Sandalo 1-10m Dodge, Goerger 10419  
 " : Rio Terroues 1-10m " " 10348  
 Guanacaste: Tilaran 500-650m Stedley + Valerio 44803  
 San Jose: Between Rio Paqueta and Rio Viejo — Dodge, V.F. Goerger 9728  
 Heredia: Santo Domingo Del Roble 1600m V.F. Goerger 10490  
 Guanacaste: near Tilaran 500-690m Dodge, W.S. Thomas 6562  
 Heredia: Santo Domingo del Roble 1600m V.F. Goerger 10489  
 Puntarenas: near Corozal 5-50m Dodge 7529

Leptogium Leptogopsis

- Guanacaste: H. Santamaria 640-680m Dodge 8032  
 W.S. Thomas



## NEW ENGLAND BOTANICAL CLUB

Leptogium Coralloideum (Coat.)

- Alajuela: ~~near Fraijanes~~ 1500-1700m  
 Viento fresco 1600-1900m Standley, Torres 47771
- " : Santiago de San Ramón 1000m A. M. Brenes
- " : between Desamparados and Alajuela 920-980 Dodge  
 J. Valerio 7999
- Brazil: Cuzaba Matagrosso — G. A. Malme 251894
- San Jose: north of Turricares. 540-600m Dodge, W. S. Thomas 7481
- Puntarenas: Rio Sandalo . . . 1-10m Dodge, V. F. Geringer 10339
- Alajuela: Rio Ciruela . . . 920-980m Dodge, J. Valerio 7921
- " : Santiago de San Ramón 1000m A. M. Brenes —
- Fuertes: — S. Pedro —
- Brazil: Porto Alegre, Rio Grande do Sul — B. Rambo 25
- " : Serra dos Palos Cruz Alta — Det. Malme 21 IV 1893
- Columbia: Dept. Santander (Sterile) 2500-2700m Killip, A. C. Smith 18982
- " " " 2000-2600m " " 19334
- Peru: Dept. Ayacucho 750-1000m " " 22532
- " " " 750-1000m " " 22570
- Chile: Corral Chile — R. Thaxter
- Peru: Dept. Ayacucho — Killip and Smith
- Costa Rica: Santiago 1140-1180m C. W. Dodge 8001
- Heredia: above Santo Domingo Del Roble 1600m V. F. Geringer 10597



NEW ENGLAND BOTANICAL CLUB

Leptogium stipitatum

Fuencs: \_\_\_\_\_ S. Pedro \_\_\_\_\_

Leptogium Mallotianum

Heredia: Santo Domingo Del Roble 1600m Dodge, V.F. Gouger 9640

Chile: \_\_\_\_\_ R. Thase(?) \_\_\_\_\_

" : Porto Armas Magallanus \_\_\_\_\_

" " " \_\_\_\_\_

" " " \_\_\_\_\_ R. Thaxter \_\_\_\_\_

Heredia: Santo Domingo Del Roble 1600m Dodge, V.F. Gouger 9672

Leptogium Papillosum

San Jose: Finca Guayabillos 2250m " " 9689

~~" : Santa Maria de Dota 1500-1800m F.C. Standley 416~~

Leptogium Soturninum

Peru: Motucana 8000 feet George S. Bryan 68

Leptogium Menziesii

Peru: Muna 7000 feet " " 498

" : Mito 9000 feet Mc. Bride, Featherstone 1913

" : Cuzco 11000 feet C. Buns 921

" " 6000-9000 feet " " 1520

" : Motucana 8000 feet George S. Bryan 75

## NEW ENGLAND BOTANICAL CLUB

Leptogium inflexum

- San Jose: Sta. Maria de Dota 1800 m P.C. Standley 42899  
 " " : Cerro de Las Vueltas 2700-3000 m P.C. Standley 43823 a  
 J. Valerio  
 Cartago: near Finca del Volcán de Turrialba 2000-2400 m P.C. Standley 35174  
 Columbia: Dept. Santander 3800-4100 m E.P. Killip  
 Peru: Mito 9000 feet Alchor Smith 18598  
 " : Cuzco 1700 m Geo. S. Bryan 286  
 San Jose: Zargui 2000-2500 m C. Bues 1589  
 Standley, J. Valerio 48292

Leptogium simplicius

- San Jose: near Finca Santana — Dodge, W.F. Geringer 10455  
 Frances: S. Pedro 1200 m —  
 " 1200 m —  
 Uruguay: Dept. Treinta y Tres 20 m W.G. Kertes 88810  
 Guayaquil: near Liberia 100 m Dodge, A. Alfaro, W.S. Thomas 6586  
 " : near H. Santomera 640-680 m Dodge, W.S. Thomas 8029  
 " " " 640-680 m —  
 San Jose: Rio Paqueta 1-3 m " " —  
 Alajuela: along Rio Ciruela 920-980 m Dodge, W.F. Geringer 9680  
 Columbia: Dept. Santander 3000 m Dodge, J. Valerio 4894  
 Killip, A.C. Smith 19543

NEW ENGLAND BOTANICAL CLUB

Leptogium Pichneum

Simon: Finca Castilla	30m	Dodge, V.F. Berger	10595
" " "	30m	" " "	10595
" " "	30m	" " "	9371

Paraguay: Colonia Riso	—	D. A. Malme	1325
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Puntarenas: above Quebrada Guaca	10-30m	Dodge, V.F. Berger	10284
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Brazil: Porto Alegre, Rio Grande do Sul	—	B. Rambold	14
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Leptogium Marginellum

Simon: near Finca Castilla	30m	Dodge, V.F. Berger	9356
		"	9786

San Jose: between Rio Pagueta and Rio Vago	—	"	"
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Panama: Los Escudos	—	Dodge, A.A. Hunter	8822
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Alajuela: San Pedro de Ramon	700m	Albert M. Brenes	—
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Puntarenas: Rio Terrones	1-10m	Dodge, V.F. Berger	10327
" : Rio Sumbalo	1-10m	"	10538

Panama: road between Panama & Chepo	—	Dodge, A.A. Hunter, J.A. Steyermark, P.H. Allen	8663
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" : between Capira & Potosi	80-130m	Dodge, A.A. Hunter	8957
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Zapagos Islands: Indefatigable Is	—	H. K. Ineson	2306
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Brazil: Sta. Catharina	—	J. Riche	—
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" : Rio de Janeiro	—	D. A. Malme	1696
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NEW ENGLAND BOTANICAL CLUB

Lept. Margnellum (Cont.)

San Jan: Bethania	—	N.L. Britton, J.A. Shaper	276
San Jose:	1000-1100 m	Dodge	4305
Cartago: near the F. V. de Turrialba	2000-2400 m	P.C. Standley	3486
" : Rio Birris	1220-1340	Dodge, W.S. Thomas	8020
" " "	1220-1340	"	7971
Guancaste: <sup>H. Santamaría</sup> <del>Dodge</del>	680-780 m	"	6901
" : near Tilaran	500-600 m	Standley, Valerio	44430
Uruguay: Maldonado	100-400 m	Dodge	7281

Leptogium Vesiculosum

Puntarenas: R. Sandoval	1-10 m	Dodge, W.F. Berger	10536
Heredia: Santo Domingo del Roble	1600 m	W.F. Berger	10501
" " " " "	1600 m	Dodge	10447
Panama: near Vigia on San Juan	66 m	Dodge, Steyermark	8554
" : between Panama and Chepo	—	" " "	8578
Columbia: Dept. Santander	2500-2600 m	Killip, Smith	19292
" : Colegio de Ntra. de los Andes	—	Ayres	54
Peru: Dept. Ayacucho	1500 m	Killip, Smith	22400
" " "	750-1000 m	" "	22532



## NEW ENGLAND BOTANICAL CLUB

Leptogium Foveolatum

- Panama: Rio Indio 70-80m Dodge, P.H. Allen 8855  
 " : between Boquete and El Valle 2000-2200m Gil W. Martin 8240  
 " : along banks of Quebrada La Palma 70-80m Dodge, P.H. Allen 8961  
 Peru: Dept. Ayacucho: 750-1000m Killip, A.C. Smith 22575  
 San Jose: between Rio Paguita + Rio Viejo — Dodge, V.F. Gaerger 10533

Leptogium Microstictum

Palenque

— Liebmann 7428

Leptogium Olivaceum

- Panama: Rio Indio 70-80m Dodge, P.H. Allen 8960

San Jose: Rio Verilla

Dodge

8030

La. Leptogium Denticulatum  
New Orleans

Dodge

British Honduras: Punta Gorda

J.V. White

1

Cartago: Cerro Carpintera

1350-1500

Dodge, V.F. Gaerger

10511

San Jose: between Rio Paguita + R. Viejo —

"

"

9818

" : Finca Guayabillas

2250m

"

"

10710

Limon: Finca Castilla

30m

Dodge, V.F. Gaerger

9183

Heredera: Santo Domingo del Roble 1600m Dodge, V.F. Gaerger 9588

" " " " 1600m V.F. Gaerger 10539

" " " " 1600m Dodge " 9606

## NEW ENGLAND BOTANICAL CLUB

Leptogium Denticulatum (Cont.)

- Puntarenas: R. Terrones 1-10m Dodge, V.F. Goerger 10316  
 " " " 1-10m " " 10330  
 Panama: Rio Indio — J.A. Steyermark, P.H. Allen 8901  
 " : Cerro Colorado Island 120m P.C. Standley 40803  
 " " " " — Dodge — — 3769  
 " " " " — " — — 3890  
 Guatemala: Dept. Izabal 15-225m P.C. Standley 24468  
Leptogium Austroamericanum  
 San Jose: between R. Paquinta & R. Viejo — Dodge, V.F. Goerger 9798  
 " " R. Paquinta 1-3m " " 9731  
 " " " 5-50m " " 9833  
 " " between R. Paquinta & R. Viejo — " " 9797  
 Heredia: Santa Dominga del Rio 1600m " " 9589  
 " " " " 1600m Dodge 10671  
 " " " " 1600m Dodge, Goerger 9678  
 Puntarenas: Rio Sumbale 1-10m " " 10402  
 " " " 1-10m " " 10179  
 Panama: Colon, Tumbas Viejas 90-400m Dodge 8689  
 " : Quebrada Bonita 70-80m Dodge, P.H. Allen 8815

NEW ENGLAND BOTANICAL CLUB

Lept. Austroamericanum (Cont.)

Panama: Quebrada La Palma	70-80 m	Dodge, P.H. Allen	8889
" : Quebrada Ancha	70 m	Dodge, J.A. Steyermark	8963
" Quebrada La Palma	70-80 m	Dodge, P.H. Allen	8891
" near Vigia and San Juan	66 m	Dodge, Steyermark, Allen	8549
" Quebrada Bonita	70-80 m	Dodge, P.H. Allen	8887
" Quebrada Foa	70-100 m	Dodge, P.H. Allen	8895
" R. Indio	70-80 m	" "	8849
" between Panama + Chepo	—	Dodge, Hunter Steyermark, Allen	8967
" Quebrada Tranquilla	70-80 m	Dodge, Allen	8885
" R. Indio — — — —	70-100 m	" "	8937
" " — — — —	70-80 m	" "	8856
" " — — — —	—	" "	—

Galapagos Islands: Indefatigable Is. 2000 feet H.K. Jenson 2029

Columbia: Colegio de Ntra. Senora de los Andes — Azael 63

Leptogium Azureum

Cuba: Monte Verde —

C. Wright 14

British Honduras: Cockscomb Mts.

W.A. Schiop 5118

Nicaragua: Greytown —

C. Wright

NEW ENGLAND BOTANICAL CLUB

Leptogium azureum (Cont.)

Simon: Finca Castilla	30m	Dodge, V.F. Berger	9300
" " "	30m	" "	9159
" " "	30m	" "	9365
" Livingston Farm	80-100m	Dodge, Geo. Catt, Thomas	5573
" Castilla Farm	20m	Dodge, Neumann	9209
" Gaspiles	300-500m	P.C. Standley	39137
Turialva	—	A.S. Oversted	—
San Jose: Rio Paquita	1-3m	C.W. Dodge, V.F. Berger	9753
" " " "	1-3m	" "	9758
" " " "	—	" "	9792
Cartago La Carpintera	—	Dodge	3987
<del>La Caca</del>	—	<del>Indragrass</del>	—
Fuenfues: S. Pedro	1200m	<del>Heller</del>	—
Panaremas: R. Sandalo	1-10m	Dodge, V.F. Berger	9944
Simon: Finca Homberg	25m	" "	9545
Panaremas: Rio Sandalo	1-10m	" "	10546
" " "	1-10m	" "	10044



## NEW ENGLAND BOTANICAL CLUB

Leptogium Gysemum (cont.)

Panama: Barro Colorado Is.	—	Dodge	3805
" " " "	—	"	3734
" " " "	—	"	3853
" " " "	—	Dodge, C.E. Woodworth	3838
" Quebrada Avelina	70-75m	Dodge, Allen	8801
" United Fruit Co. Farm 6	—	Dodge, V.L. Permar	4131
" Tumba Vieja	90-200m	Dodge, Steyermark	8777
" Quebrada Tranquilla	70-80m	P.H. Allen	
" R. Indio	— — 70-80m	Dodge, Allen	8884
" near Chepo	— — 30m	Dodge, Allen	8850
"		Jorge Borden	10588
Columbia: Dept. Santander	— — 3200m	Killip, A.C. Smith	18840a
" " "	3300-3600m	" "	17804
" " "	2000-2600m	" "	19328
Peru: Dept. Loreto	100m	G. Kley	830a
Brazil: Sta. Catharina	—		—
Brazil: São Paulo	—	J. Rick	—
" " "	—	L.B. Smith, M. Kuhlmann	No. C 1097
" Rio Grande do Sul	0-50m	L.B. Smith	No. C 1137
"	—	J. Rick	—

## NEW ENGLAND BOTANICAL CLUB

Leptogium azureum (Cont.)

Corral, Chile

R. Thaxter  
A.W.D.

6645

32

Leptogium Uruguay: Treinta y Tres 20m

" Dodge

F8813

Danby-Pawlet line

Dodge, D.H. Snyder

707

Vermont, Selis east of Lake E. Putnam

Dodge

Minn. Kettle Falls

B.F.

Leptogium tremelloides

Vermont, Pawlet

Dodge

" : Danby, Bennerbrook

Dodge

1851

Rising Lake City

B.F.

Leptogium chlorocellum

Nicaragua: Greytown

C.Wright

Leptogium tuckermanni

Peru: Dept. Ayacucho

1000m

Killip, Smith

22505

" " "

3200m

"

"

23260

" " "

750-1000m

"

"

22788

Cuba: Monte Verde

—

C.Wright

15

Jamaica: Catharine Peak

3000'

V.H. Foul

2

Columbia: Dept. Santander

2000-2600m

Killip

A.C. Smith

19332

## NEW ENGLAND BOTANICAL CLUB

Leptogium Tuckermanni (cont.)

San Jose: Finca Guagabillos	2250 m	Dodge, V.F. Gaerger	10569
Cartago: C. Carpiutera	1350-1500 m	" "	10534
Pacuterenas: Rio Terrones	1-10 m	Dodge, Gaerger	10524
Meredia: Santo Domingo del Real	1600 m	Dodge	10686
" : " " " "	1600 m	V.F. Gaerger	10505
" " " " "	1600 m	"	10492
" " " " "	1600 m	"	10513
Panama: Balboa	—	Dodge, Hunter, Steyermark	8669
" : R. Indio	70-80 m	Allen	8651
		Dodge, Allen	8851

Leptogium Agrellianum

Rapa Is: Mt. Ruatara	80 m	F.R. Fosberg	—
Mangareva Is:	180 m	H. St. John	14518
Austral Islands: Raiavavae, Pic Rouge	60 m	H. St. John, Fosberg	15977
Rapa: Mt. Ruatara	80 m	F.R. Fosberg	11459a
Lanai:	—	C.N. Forbes	4192

Leptogium Brebissonii

Brazil: Mata Grossa	—	D.A. Malme	2645
Sept. <u>Chloromelium</u>			
Brazil: Mata Grossa	—	D.A. Malme	2891

## NEW ENGLAND BOTANICAL CLUB

Leptogium Crispulum

Pitcairn Is.: Parlor Valley Ridge 250m H. St. John 14988

Rapa: Ahurei Bay 5m F.R. Fosberg, E.C. Zimmerman 11405

Mani: Honokahau Drainage Basin — C. N. Forbes 52511

Lept. Cyanescens

Quebec: St. Anne — Ernest Lepage 121

Lept. Dinortens

Philippine Islands: Luzon — A. D. E. Elmer 15106  
 " " " " — " 15106a

Lept. Dimorphum

Jamaica: Newcastle to Hardune Gap — A. M. Evans H 67  
Lept.

Haiti: Mt. Pailborsau 3000 feet W. S. Thomas 45a

Lept. Javanicum

Mangareva Islands: Akamara Is 10m H. St. John 14929

Lept. Juniperinum

Tenn. Lookout Mt. — Calkins 49

Heredia: Santo Domingo del Roble 1600m Dodge 10642

Lept. Salveus

San Jose: Finca Guayabillos 2250m Dodge, Gaeher ~~225~~  
 10531



## NEW ENGLAND BOTANICAL CLUB

Lept. Euleptogium

Kauai:	—	C. N. Forbes	1458 K
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"	—	"	1233 K
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Maui: Honokahau Drainage Basin —		"	5-16 M
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Lept. Moluccanum

Oahu	—	"	1883.0
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Rapa: Mt. Ruatara	80m	F. R. Fosberg	11459
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"	"	"	80m
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Lept. Tremelloides

Brazil: Porto Alegre, Rio Grande do Sul —		Baldwin Rambo	104
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Lept. Pulchellum

Tenn. Lookout Mt.	—	W. W. Atkins	49
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Ok. Rich Mt.	—	R. E. Woodson	
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Lept. Tremelloides

Costa Rica: Turrialva	—	A. S. Bersted	—
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San Jose	1130m	P. C. Standley	41233
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Cartago: Orosi	—	"	39791
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San Jose: La Hondura	1300-1700m	"	37870
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NEW ENGLAND BOTANICAL CLUB

Lept. Standleyi

Santo Domingo: Hato Mayor	200 ft.	W. S. Thomas	31
Panama: R. Chagres	66 m	Stegemark, Ellen	8697
" : Quebrada Bonita	70-80 m	Dodge, P. H. Allen	8959
Heresia: Chahuites	1900 m	Doerger	10633
Cortago: C. Carpintera	1350-1500 m	Dodge	10553
San Jose: finca Guayabillos	2250 m	Doerger	
		Dodge	10498
Corral Chile:	—	R. Thayer	6647
Chile Concepcion	—	"	6646
Columbia: Colegio de Ntra. Senora de los Andes	—	—	63

Lept. Subheteromerisus

Maui: Honokahau Drainage Basin	—	C. N. Forbes	5304
" " " "	—	"	5294

Lept. Tremelloides

S. Africa: Simonstown	—	C. Wright	3.10.3
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OBSERVATIONS ON TROPICAL AMERICAN AND OTHER LICHENS. I.

CARROLL W. DODGE

Mycologist and Professor in the Henry Shaw School of Botany of  
Washington University

In connection with my lichen flora of Costa Rica<sup>1</sup>

<sup>1</sup> Dodge, C.W. The foliose and fruticose lichens of Costa Rica [I].

Ann. Mo. Bot. Gard. : - . 1 map. 193 ; II. Stictaceae and

Peltigeraceae. Ibid. : - . 1939.

I have studied many specimens from other parts of the world, mostly the American tropics. To discuss them adequately in that work would increase its size without greatly increasing its usefulness to the Costa Rican student; therefore it is proposed to include such observations in this series, rather than holding them <sup>indefinitely</sup> in manuscript until sufficient have accumulated to justify a monograph of a family or a flora of a region.

Collema

Micronesia & Polynesia Usnea

Euimitria  
implicata (Stetn) Z Marianne's Hawaii

Umbilifera Nyl Tahiti

Euusnea

~~Fusata~~

~~Articulata~~

~~Baccata~~

~~Setulosae~~

~~Denimosa~~

Uglomerata Mot 315 Hawaii

U diademensis Vain Tahiti

Rubiginosae

U spilota Stetn Hawaii

Elongatae

Ceratinae

~~Gracilae~~

~~Longiss~~

Stramineae

~~Amoenae~~

~~Eustramineae~~

Lactabiles Margueres Isl

fantauensis Vain Tahiti

indifica Tayl Loyalty Isl.

sociolatus Vain Tahiti

grandis Mot Tahiti

straminea Ma Tahiti Samoa

intercalaris Krmph Fiji Samoa Tahiti

expansansa Mot Loyalty

~~Falcatas~~

~~glabratae~~

Pycnocladae Mot

U hawaensis Hawaii

v. sensitiva Mot

~~Scabridae~~

Ciliiferae

australis F. Hawaii

fuscorubens Mot Tahiti

~~Xanthopogae~~

Ossolencae

lutea Mot Hawaii

ossolenca <sup>Mot</sup> Hawaii

entoviolata Mot Hawaii

macrocarpa Mot Tahiti

Dendriticacae

Cladocarpae

peruinoza Mot Hawaii

Rockii Z Hawaii

altissimatae Serpentinae

Laevigatae

Amabile

Roccellae

Bornuensis v. compactior

compactior probably  
found in  
glaciers with other  
clada  
subsp.



Since the current advertisement (enclosed) outlines the situation in some detail, I shall not attempt to cover it in this letter. However, I believe you will agree that the railroads of this country need the services of "a new and efficient sleeping car operating company that can, and will buy sleeping cars competitively in quantity and service them economically." Otherwise, the average sleeping car passenger will have a slim prospect for a comfortable ride in a car equipped with modern conveniences and improvements.

It has often been demonstrated that the public can have anything it wants -- if it makes its position clear. The public certainly did make its position clear on through sleeping car service and the Black Market in Pullman space.

We hope and believe the public will be equally clear in its demand for modern sleeping cars at reasonable cost for all railroads that need them.

Your newspaper editor, I am sure, will be as interested as I will be in any comments or suggestions that you may care to offer.

Very truly yours,

*Robert L. Young*

July 12 Pango de Quime Bolivia also July 3 13500 ft  
Aug 14 Ipurana Bolivia  
Sept 9 Convento 2500 ft Bolivia  
Sept 28 Inquisivi 2500 ft Bolivia  
Sept 12 Tumupasa 1000-1500 ft Bolivia

## FEbruary 16 to February 22, 1947

### SUNDAY - FEBRUARY 16

4:30 PM STUDENT VESPER SERVICES: Rev. William J. McCracken, Emmanuel Episcopal Church, "The Rock and the Sand" - Graham Memorial Chapel

### MONDAY - FEBRUARY 17

9 AM - 5 PM EXHIBITION: "If you Want to Build a House" - Givens Hall Exhibition Gallery (open week days thru March 3)

8 PM LECTURE: Chancellor Compton, "UNESCO Conference"; Sponsored by the A.V.C. - Graham Memorial Chapel

### TUESDAY - FEBRUARY 18

4 PM "ENGINEER IN TRAINING" LECTURE: Mr. C. G. Roush, President, Missouri Society of Professional Engineers, "The Engineers' Place in and Responsibilities to Society" - Brown Hall Auditorium

8:15 PM WASHINGTON UNIVERSITY ASSOCIATION LECTURE: Billy Bryant, "Forty Years of Showboating" - Soldan High School. Admission by subscription.

### WEDNESDAY - FEBRUARY 19

4 PM PHYSICS DEPARTMENT COLLOQUIUM: Dr. James F. Nolan, "Protective Measures Against Dangerous Radiations" - Crow Hall 101

8:15 PM ILLUSTRATED LECTURE: Dr. Chas. H. Morgan, of Amherst College, "Corinth, City of Aphrodite"; sponsored by the Archaeological Institute of America, St. Louis Society - Givens Hall 116

### THURSDAY - FEBRUARY 20

8 PM WASHINGTON UNIVERSITY ALUMNI BIRTHDAY PARTY: Chancellor Compton, Director of Athletics Blair Gullion, Quad Club, the University Chorus; for all Alumni, Students and Faculty - Field House

### FRIDAY - FEBRUARY 21

9 PM GOLD-DIGGERS BALL: Sponsored by Mortar Board - Field House; Admission, \$1.25

### SATURDAY - FEBRUARY 22

HOLIDAY - Washington's Birthday

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## COMING EVENTS

February 23 VESPER SERVICES: Commemorating the 94th Anniversary of the Founding of Washington University; Vice Chancellor Charles Belknap - Graham Memorial Chapel; 4:30 PM

February 28 GERMAN REALISM FILM: Showing of one film, 1927 (Silent) - Brown Hall Auditorium; 8:15 PM. Admission by subscription.

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Events listed are open to the general public and free of charge, unless the notice indicates otherwise.

Juss Mary Land Mosses

*Ceratodon purpureum* (L.) Bnd. forma (near *C. grossiretus* Card Bull  
Hert Boiss II 6:14.

*Sarcocaulon glaciale* (Hf. W.) Card + Bryhn Marie Byrd L Victoria L  
Cockburn I.

*Grimmia fastigiata* Card Bull Hert Boiss II 5:1003.

" *stolonifera* C Mull. very close to Kerguelen pl but differs...  
[*antarctica* Card M Byrd L Graham + vars M B Land

*Bryum antarcticum* Hf W formae Cockburn I

*Bryum antipolare* Card M Byrd L Graham L

*Gerlachii* "

*filicaule* Broth.

[*Inconnexum* Card } probably forms of same sp  
[*algens* Card } but not seen from 2 Mary L.  
[*Diplei* M Byrd L

*Barbula Byrdii* M Byrd L.



WASHINGTON UNIVERSITY

December 2, 1942

A meeting of the Faculty of the School of Graduate Studies will be held on Wednesday, December 9, 1942 in room 228, Robert S. Brookings Hall, at 4 o'clock.

To facilitate taking attendance please leave your name with my assistant who will be stationed at the entrance to the room.

*Ch. Hauke*  
Secretary

18X1  
12.5  
1000  
125  
225.

Coeliferae--Stramineo-flavidae

Podetia typically with cups, grossly granulose or squamulose K+  
Campbell Island C. subdigitata

Podetia short, tips with cups or obtuse, esorediate, typically  
squamulose, K-

Thallus of elongate squamules, Reunion C. insignis

Thallus of smaller squamules, podetia yellow or yellow  
fuscescent, Australia C. firma

Ochrophaeae

Unciales

Podetia semipellucid between scattered verruculae

Reunion C. peltata

Podetia impellucid

Chondroid axis well developed, without cups, dichotomous,  
cortex subcontinuous or areolate dispersed, axils  
closed

Spermatogonial cell hyaline, axils closed

C. medusina

Spermatogonial cell red

Primary thallus persistence, podetia 0.7-1.0 mm  
thick, lower axils perforate, upper closed

C. capitellata ~~interhasam~~

Primary thallus evanescent, podetia scarcely 0.5mm  
axils closed

C. anthoclada

Chondroid axis lacking, obsolete scyphiferous, corticate  
Reunion

C. candlabrum

Chasmariae--Microphyllae, axils open

K yellow

Podetia squamose or atypically and sparingly squamulose,  
ascyphous, polychotomous or more or less dichotomous

C. subsubulata

Podetia squamose, rarely only granulose, decorticate, partly  
scyphiferous

Primary squamule small, evanescent

C. subsquamosa

~~v. pulcherrima~~

Primary squamule thick with broad lobes ~~v. phyllophora Tyl.~~

C. rigida

K-

Neither axils nor tips dilated open, podetia short

C. schispora

Axils or tips dilated, open decorticate

C. squamosa

~~granulose decorticate scyphiferous almost squamulose~~  
~~not granulose ascyphous tips gradually attenuate~~  
~~squamose + squamulose~~ ~~surculenta~~

Clasae

Polystelides

Helopodium

Podetia corticate

Chondroid axis ~~not~~ fibrous whole or moderately lacerate,  
cavity K irregularly subfuscescent, branched,  
cortex verruculose, almost squamulose

C. intermediella

Chondroid axis lacerate and fibrous ~~Ena~~

Partly sterile more or less granulose, irregularly  
branched, K slight yellow ~~C. prozelandica~~

Podetia terminated by trochocia, squamulose, simple  
or fastigiately branched, K- C. enantia

while his figure of the cross-section of a cephalodium suggests the cerebriform type.

Zhalbruckner tried to reconcile the literature without a critical study of material of either species, resulting in misstatements such as citing A. megalospora from Kerguelen rather than from Campbell Island and stating that the eight small spores coalesce to form a degenerate brown mass.

Fortunately the type of Stereocaulon Argus Tavl. and a duplicate of the type collection of S. cymosum Crombie are present and fruiting in the Taylor Herbarium at the Boston Society of Natural History. The former specimen agrees with Th. Fries' description of Argopsis, the second with the description of A. Friesiana Müll. Arg. Both are similar in podetial characters and cephalodia to Stereocaulon ramulosum. S. Argus has a hyaline parathecium and hypothecium, asci apparently not more than 2-spored, of which one early degenerates, leaving a single large muriform spore very similar to those of Lopadium, remaining hyaline until late, then becoming slightly yellowish brown, not the deep brown muriform spore of Rhizocarpon. S. cymosum has a brownish parathecium (not carbonaceous in the apothecium sectioned), asci 4-8-spored; ascospores with three transverse septa and an occasional longitudinal or oblique septum, producing a few-celled muriform spore similar to those in Collema sect. Blennthallia. Were it not for the extreme form of S. Argus, there is little to distinguish S. cymosum from Stereocaulon where the sterile material was referred. Until more information is available, it is largely a matter of individual opinion whether the generic limits should be circumscribed to include only S. Argus or enlarged to include S. cymosum. I have adopted the latter course. Both species seem to be endemic to small areas, but it is possible that they have been referred to some variety of S. ramulosum.

125  
14  
520  
125  
175



Podetia decorticate, pothecia con longitate, K yellow  
 Podetia squamulose or isidioid squamulose or granulose  
 sorediate C. aquosula  
 Podetia granulose to isidioid squamulose  
 C. elegantula

#### Thallosteloides

Not proliferating from center of cups

Podetia elongate corticate

Podetia sparsely granulose variegate

hot granulose

C. fragilis

granulose variegate

Campbelliana

Podetia sorediate above, cortex subcontinuous  
 subareolate C. cornuta

gracilentior

Podetia short when corticate or decorticate sorediose

Podetia scyphiferous, cups commonly broad and

dilated from the lower part of podetia, corticate  
 toward the base short, ~~usually~~ squamulose

grossly granulose soredios C. pyxidata

Podetia senipellucid

v. costata

Podetia impellucid

v. chlorobacca

Primary thallus of thicker squamules, podetia long or short,  
 with or without cups, medium or narrow abruptly  
 dilated from upper part of podetia, wholly decorticate  
 squamulose or rarely lower part corticate, walls  
 moderately thickened. C. fimbriata

Podetia impellucid

simplex

K yellowing, short or moderate, ascyphiferous or  
 minutely scyphiferous, granulose with isidioid  
 squamules and squamulose, wholly decorticate or  
 slightly corticate at base

v. Borbonica

K-

Podetia ascyphous, tips quite narrowly subulate

decorticate dispersed, sorediose, squamules

isidioid and squamulose with granulate margin

squamulose at base; v. subspeciosa

Podetia senipellucid, wholly decorticate and sorediose

or soredia finally disappearing, without

squamules or with squamulose base

v. chondroidea

Scyphiferous, proliferous

c. chlorophloeoides

sub simple

v. subradiata

proliferous

Primary squam of thinner squam

Sterile proliferations, scyphiferous

f. subprolifera

Sterile proliferations ascyphous or some

abortive scyphiferous

Primary squam large podetia 10-15mm

cups medium to quite large verruculose  
 corticate a little translucent subequamulose  
 on tip crowded squamulose ap whitish flesh  
 color - C. leucoccephala

sterile proliferations

f. subradiata

Ascyphous, wholly decorticate and sorediose, core

isidioid or isidioid connate finally dis

appearing

v. Balfourii

Proliferating from center of cup, decorticate, partly granulose  
 corticate

Primary squamule large, thick, podetia 25-30mm with few large  
 squamules C. centrophora

Primary squamule smaller, podetia 35-80mm perhaps also 20-30mm

more or less squamulose

Ochroleucous, podetia ± sorediose short 3-15mm ascyphous simple - C. gracilentior



without microscopic examination in other herbaria.

Argopsis Argus (Hook. f. & Tayl.) Dodge, comb. nov.

Stereocaulon Argus Hook. f. & Tayl., London Jour. Bot. 3:653. 1844;  
Cryptog. Antarct. 84. 1845; Fl. Antarct. : . 184

Argopsis megalospora Th. Fr., Nova Acta R. Soc. Sci. Upsal. III.  
2:325. 1858.

Type: Campbell Island, on rocks on mountains, J. D. Hooker (Voy. Erebus & Terror in Taylor Herb. at Boston Soc. Nat. Hist. Type of A. megalospora based on a duplicate of this collection in Upsala. The sheet marked "Stereocaulon Argus Tayl." contains four plants glued to the sheet. When they were studied by Müller Argau in 1887, he lettered the plants "a" and "b" and annotated the sheet: a. Argopsis megalospora Th. Fr.; b. Stereocaulon ramulosum v. macrocarpum Bab. Nyl. The following description is based on the two individuals marked a by Müller Argau. The confusion is not surprising as the specimens resemble each other very closely in macroscopic characters, having the same type of branching and phyllocladia. The primary branches of Argopsis are somewhat flattened, the cephalodia are much less conspicuous and darker in colour, the exciple is verrucose and the disc tends to remain flatter: all characters which would have been considered trivial in Taylor's time. Taylor, however, mentions all these characters in his description although all his specimens do not show them.

Thallus 4-5 cm. tall, branching near the base, closely dichotomous, appearing sympodial, base 2.5 mm in diameter, somewhat flattened and obscurely striate sulcate longitudinally; decorticate, smooth, secondary branches more terete, verrucose, the verrucae passing into short, terete obtuse phyllocladia, cortex dull and peeling off, leaving a slightly tomentose surface; cephalodia not abundant, small, cerebriform, of the Stereocaulon ramulosum type.

- Del non Kimp. Bourbon
- C *Boriana* for pl of S hemisphere sempellucid waxy.  
*Scyphiferus*  
 1 *Chondroidea* S Afr.  
 2 *chlorophaeoides* S Amer + Fuegia.  
 2 a *subprolifera* Brasil Cuba Bermuda cups prolif.  
 3 *subradiata* NZ + (Brasil Minas)  
 3 a *acuminata* habescens Bermuda  
 4 f minor St Paul  
 5 *costata* Croub non Flee Kerguelen  
 2. *Boriana* ~~capellieri~~ *intermedia* Del similar *Boriana* but smaller *Borbonica*  
*ascypha*  
*Balfourii* Rodriguez  
*cornigera* R de Jensen.  
 " *ochroleuca* Minas  
*ustulata* Falklands  
*acuta* Islands of Pacific  
*imperfuratus* Tasmania impellucid! perhaps *borbonica*  
*tenella* West Afr.  
*Boriana* Kimp. Hawaii  
*Borbonica* not clearly sempellucid.  
*subspeciosa* NZ + Chile *ascyph.*  
*recta* NZ  
*macella* NZ

1894.  
 C *Boriana* Del ap Wain 1894  
 C *Boriana* nyl ap Wain 1894  
 C *Chondroidea* S Afr 1894  
*intermedia* Bourbon 1894  
*costata* Croub Kerg 1876 non shot 1849  
 f. minor Kimp. 1870 non tag.  
*subradiata* NZ 1894  
*chlorophaeoides* 1887 non und 1894 Tierra del Fuego.  
*subprolifera* 1894 hep am  
*hebesceus* 1877. Bermuda  
*Borbonica* v. *Boriana* 1877

W A S H I N G T O N   U N I V E R S I T Y

Office of the Dean  
College of Liberal Arts

November 11, 1942.

TO ALL MEMBERS OF THE CORPS OF INSTRUCTION  
COLLEGE OF LIBERAL ARTS

Representatives of the Joint Army-Navy-Marine Corps-Coast Guard College Procurement Committee will be on our campus on Monday, Tuesday, and Wednesday, November 16, 17, and 18, to discuss with men students the provisions of the College Enlistment Plans.

On Monday morning, November 16, all men students on the campus will be required to attend assemblies in Brown Hall Auditorium in accordance with the following schedule:

9:00 a.m. - College of Liberal Arts and University College

10:00 a.m. - School of Business and Public Administration,  
School of Law, and School of Fine Arts

11:00 a.m. - Schools of Engineering and Architecture

On Monday morning, November 16, all women in nine o'clock classes in the College of Liberal Arts and in University College will meet in the Court Room in January Hall. Dean Starbird will discuss the conference held at Northwestern University, on November 13 and 14, for the purpose of formulating training programs that will best fit college women for participation in our war effort.

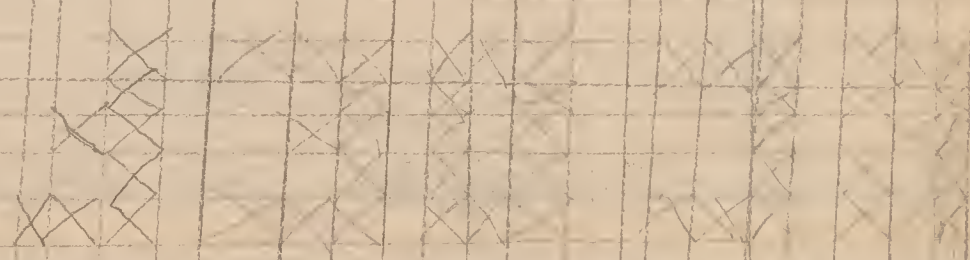
Very sincerely yours,

*Wm. Glasgow Bowling*  
Wm. Glasgow Bowling,  
Dean.



*Thallus primarius* <sup>perpetuus aut</sup> ~~levis~~ *evanescens*  
*ochrochloa* <sup>chondroidea</sup>

Perithe	2-12 mm	1-4
costae	160-300	130-200
medullae	30-40	30-40 by 5-6
hyphae	3-4	2-5
Podetia	5-40 (55) mm	5-60
wall	0.5-4	
costae	100-400 $\mu$	160-300
	20-30	
med	2.5-4	
	indistinct	
axis	60-100	160-300
	indist	
apoth	1.8-4 mm	1-4 mm
Hypoth	pale	pale
thecium	40-50	40-45
Paraph	2.5-6.5 $\mu$	1-1.5 $\mu$
Asci	tip clavate	tip clavate
Spores	8-15	8-10
	3-5-4	8-12
Spermat	ovoid conoid	3-4
spherules	2-20-380	ovoid conoid
spermatia	15-25	170-380
	0.5-1 $\mu$	15-20
		4-6 (-8)
		0.5



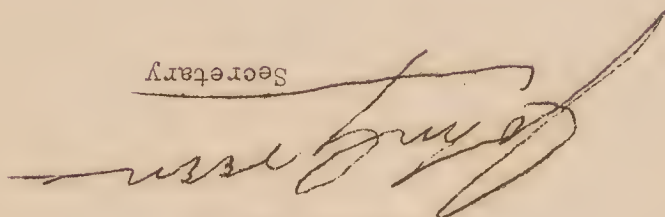


*pyr neglecta*  
 Prim th  $\frac{2-5(-8) \text{ mm}}{240-320 \mu}$   
 cortex (40-) 50-60  
 medhyph 2-5  
 Podetial esorediate  
 cups  
 stipes  
 inside cup  
 apothecia .

*chlorophaea*  
 $\frac{(2-)4-7(-15) \text{ mm}}{250-360}$   
 (30-) 40-60  
 4-5  
 granulose  
 sorediose above

*poecillum*  $\frac{2-13 \text{ mm}}{500-600 \mu}$   
 40-60  
 5-6  
 esorediose  $\frac{3-35 \text{ mm}}{(2-4)-(6-9) \text{ mm}}$   
 0.5-3  
 sorediose  
 ped 2-12 mm

*fimbriatoplex*  
*prolifera*



Secretary

Sincerely yours,

Thanking you for your co-operation, I am,

The American Board of Ophthalmology would  
 greatly appreciate your publishing the enclosed notice  
 in one or several future issues listing the Board's  
 examinations.

Dear Doctor:

OFFICE OF THE SECRETARY  
 ROOM 1002, BEAUMONT MEDICAL BUILDING  
 3720 WASHINGTON BOULEVARD  
 ST. LOUIS, MISSOURI

American Board of Ophthalmology